OIPE

ENTER

DATE: 03/04/2002
TIME: 14:46:32

RAW SEQUENCE LISTING
PATENT APPLICATION US/10/077,176

Input Set : A:\433480_1.txt
Output Set: N:\CRF3\03042002\J077176.raw

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      4 <110> APPLICANT: Brachmann, Rainer
      6 <120> TITLE OF INVENTION: ENGINEERED OPEN READING FRAME FOR P53
      9 <130> FILE REFERENCE: 004255.00008
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/077,176
C--> 11 <141> CURRENT FILING DATE: 2002-02-19
     11 <160> NUMBER OF SEQ ID NOS: 71
     13 <170> SOFTWARE: FastSEQ for Windows Version 4.0
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     16 <211> LENGTH: 1182
     17 <212> TYPE: DNA
     18 <213> ORGANISM: Artificial Sequence
     20 <220> FEATURE:
     21 <223> OTHER INFORMATION: Produced by genetic engineering
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     26 gatgatttga tgctgtcccc agacgatatt gaacaatggt tcactgaaga tccaggccca     180
     27 gatgaagctc cacgaatgcc agaggccgct ccaccggttg ccccagcacc agcagctcct     240
     28 acaccggcgg cccccagtcc ggccccatcc tggcctctgt catcttctgt cccttcccag     300
     29 aaaacctacc agggcagcta cggtttccgt ctgggcttct tgcattctgg aactgccaag     360
     30 tctgttactt gtacgtactc tccagccctt aacaagatgt tttgccaact cgcgaagacc     420
     31 tgccccagtcc aactgtgggt cgactccacc cctccacctg gtacacgtgt ccgcgcaatg     480
     32 gccatctaca agcagagcca gcacatgacg gaggtcgtac gacgctgtcc acaccatgag     540
     33 cgctgctcag attctgatgg tctggcgcca ccacagcatc ttatccgagt ggaaggtaac     600
     34 ctacgcgtgg agtatctaga tgaccgcaac acttttcgac acagtgtggt ggtgccatat     660
     35 gagccaccag aagttggctc tgactgcacc accatccact acaactatat gtgtaacagt     720
     36 tcatgcatgg gcggcatgaa ccggcggccg atcctgacca tcatcactct cgaggattcc     780
     37 tcaggtaatc tcctaggacg gaattccttt gaggtgcgtg tttgtgcatg ccccgggcgc     840
     38 gatcgccgga ccgaagagga gaatcttccgg aagaaaggtg agcctcacca cgagctgcca     900
     39 ccaggaagca ctaagcgagc actgccaaac aacaccagca gttctccaca gccaaagaag     960
     40 aaagctttgg acggagaata tttcaccctt cagatccgtg gccgtgagcg gttcgagatg    1020
     41 ttccgagagc tgaatgaggc cttagaactt aaggatgccc aggctggtaa ggagccagga    1080
     42 ggcagccgtg ctcatagcag ccacctgaag tccaaaaagg gtcagtctac ctcccgccat    1140
     43 aaaaaactga tgttcaagac cgaaggtcct gactcagact ga                       1182
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     48 <213> ORGANISM: Artificial Sequence
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     55 gatctgtgga agcttcttcc tgaaaacaac gttctgtccc cattgcctag tcaagcaatg     120
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56 gatgatttga tgctgagccc agacgatatt gaacaatggt tcactgagga tccaggtcct   180
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58 agaccggccg ccccagctcc tggccccatcc tggcctctgt catcttctgt cccttccccag   300
59 aaaactacc agggcagcta cggtttccgt ctgggcttct tgcattctgg aactgccaag   360
60 tctgttactt gtacgtactc tccagccctt aacaagatgt tttgccaact cgccgaagacc   420
61 tgccccagtcc aactgtgggt cgactccacc cctccacctg gtacacgtgt ccgccgcaatg   480
62 gccatctaca agcagagcca gcacatgacg gaggtcgtac gacgctgtcc acaccatgag   540
63 cgctgctcag attctgatgg tctggccgcca ccacagcatc ttatccgagt ggaaggtaac   600
64 ctacgcgtgg agtatctaga tgaccgcaac actttcgac acagtgtggt ggtgccatat   660
65 gagccaccag aagttggctc tgactgcacc accatccact acaactatat gtgtaacagt   720
66 tcatgcatgg gcggcatgaa ccggccgccg atcctgacca tcatcactct cgaggattcc   780
67 tcaggtaatc tcctaggacg gaattccttt gaggtgcgtg tttgtgcatg cccgggccgc   840
68 gatcgccgga ccgaaagagga gaatctccgg aagaaaggtg agcctcacca cgagctgcca   900
69 ccaggaagca ctaagcgagc actgccaaac aacaccagca gttctccaca gccaaagaag   960
70 aaaccttgg acggagaata tttcaccctt cagatccgtg gccgtgagcg gttcgaggatg   1020
71 ttccgaggagc tgaatgaggc cttagaactt aaggatgccc aggctggtaa ggagccagga   1080
72 agcagccgtg ctcataqcag ccacctgaag tccaaaaagg gtcagtctac ctcccgccat   1140
73 aaaaaactga tgttcaagac cgaaggtcct gactcagact ga                      1182
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77 <212> TYPE: DNA
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80 <220> FEATURE:
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85 gatctgtgga agcttcttcc tgaaaacaac gttctgtccc cattgcctag tcaaqcaatg     120
86 gatgatttga tgctgagccc agacgatatt gaacaatggt tcactgagga tccaggtcca     180
87 gatgaagctc cacgaatgcc agaggccgct ccaccggttg ccccagcacc agcagctcct     240
88 agaccggccg ccccagctcc tggccccatcc tggcctctgt catcttctgt cccttccccag   300
89 aaaactacc agggcagcta cggtttccgt ctgggcttct tgcattctgg aactgccaag      360
90 tctgttactt gtacgtactc tccagccctt aacaagatgt tttgccaact cgccgaagacc   420
91 tgccccagtcc aactgtgggt cgactccacc cctccacctg gtacacgtgt ccgccgcaatg  480
92 gccatctaca agcagagcca gcacatgacg gaggtcgtac gacgctgtcc acaccatgag     540
93 cgctgctcag attctgatgg tctggccgcca ccacagcatc ttatccgagt ggaaggtaac   600
94 ctacgcgtgg agtatctaga tgaccgcaac actttcgac acagtgtggt ggtgccatat      660
95 gagccaccag aagttggctc tgactgcacc accatccact acaactatat gtgtaacagt     720
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98 gatcgccgga ccgaaagagga gaatctccgg aagaaaggtg agcctcacca cgagctgcca     900
99 ccaggaagca ctaagcgagc actgccaaac aacaccagct cttctccaca gccaaagaag     960
100 aaaccttttgg acggagaata tttcaccctg cagatccgtg gccgtgagcg gttcgaggatg  1020
101 ttccgaggagc tgaatgaggc cttagaactt aaggatgccc aggctggtaa ggagccagga  1080
102 agcagccggg cccattcgtc tcacctgaag tccaaaaagg gtcagtctac tagtcgccat    1140
103 aaaaaactga gttcaagacc gaaggtcctg actcagactg a                       1181
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106 <211> LENGTH: 1182
107 <212> TYPE: DNA
108 <213> ORGANISM: Artificial Sequence
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110 <220> FEATURE:
111 <223> OTHER INFORMATION: Produced by genetic engineering
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116 gatgatttga tgctgtcccc agacgatatt gaacaatggt tcactgaaga tccagccca 180
117 gatgaagctc cacgaatgcc agaggccgct ccaccggttg ccccagcacc agcagctcct 240
118 acacgggcgg ccccagctcc gtcccatcc tggcctctgt catcttctat ccctttccag 300
119 aaatcctacc agagcagcta cgattttcgt ctgggcttct tgcatttcag aactgccaag 360
120 tctatttactt gtacgtactc tccaaccctt aacaagatgt tttgccaact cgcgaagacc 420
121 tacccagtcc aactgtggat cgactccacc cctccacctg gtacacgtat ccgcgcaatg 480
122 gccatctaca agcagagcca gcacatgacg gaggtcgtac gtcactgtcc acaccatgag 540
123 cgctgtcaag attctgatgg tctggcgcca ccacagcatc ttatccgagt ggaaggtaac 600
124 ctacgcgtgg agtatctaga tgaccgcaac acttttcgac acagtgtggt ggtgccatat 660
125 gagccaccag aagttggctc tgactgcacc accatccact acaactatat gtgtaacagt 720
126 tcatgcatgg gcggcatgaa ccggcggccg atcctgacca tcatcactct cgaggattcc 780
127 tcaggtaatc tcctaggacg gaattccttt gaggtgcgtg tttgtgcatg cccgggccgc 840
128 gatcgccgga ccgaagagga gaatctccgg aagaaaggtg agcctcacca cgagctgcca 900
129 ccaggaagca ctaagcgagc actgccaaac aacaccagca gttctccaca gccaaagaag 960
130 aaacctttgg acggagaata tttcacactt cagatccgtg gccgtgagcg gttcgagatg 1020
131 ttccgagagc tgaatgaggc cttagaactt aaggatgccc aggctggtaa ggagccagga 1080
132 agcagccgtg ctcatagcag ccacctgaag tccaaaaagg gtcagtctac ctcccgccat 1140
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135 <210> SEQ ID NO: 5
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138 <213> ORGANISM: Artificial Sequence
140 <220> FEATURE:
141 <223> OTHER INFORMATION: Produced by genetic engineering
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146 atgatttgat gctgtcccca gacgatattg aacaatggtt cactgaagat ccagccccag 180
147 atgaagctcc acgaatgcca gaggccgctc caccggttgc cccagcacca gcagctccta 240
148 cacgggcggc cccagctccg gtcccatcct ggcctctgtc atcttctatc cctttccaga 300
149 aaacctacca gagcagctac gattttcgtc tgggcttctt gcatttctga actgccaagt 360
150 ctgttacttg tacgtactct ccaaccctta acaagatgtt ttgccaactc gcgaagacct 420
151 gcccagtcca actgtgtggt cgactccacc ctccacctgg tacacgtgtc cgcgcaatgg 480
152 ccatctacaa gcagagccag cacatgacgg aggtcgtacg acgctgtcca caccatgagc 540
153 gctgtcaaga ttctgatggt ctggcgccac cacagcatct tatccgagtg gaaggtaacc 600
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156 catgcatggg cggcatgaac cggcggccga tcctgaccat catcactctc gaggattcct 780
157 caggtaatct cctaggacgg aattcctttg aggtgcgtgt ttgtgcatgc ccgggccgcg 840
158 atcgccggac cgaagaggag aatctccgga agaaaggtga gcctcaccac gagctgccac 900
159 caggaagcac taagcgagca ctgccaaaca acaccagcag ttctccacag ccaaagaaga 960
160 aacctttgga cggagaatat ttcacacttc agatccgtgg ccgtgagcgg ttcgagatgt 1020
161 tccgagagct gaatgaggcc ttagaactta aggatgccca ggctggtaag gaggccagga 1080
162 agcagccatgc tcatagcagc cacctgaagt ccaaaaaggg tcagtctacc tcccgccata 1140

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1182

163 aaaaactgat gttcaagacc aaaggtcctg actcagactt a
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166 <211> LENGTH: 1182
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168 <213> ORGANISM: Artificial Sequence
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189 ccaggaagca ctaagcgagc actgccaaac aacaccagca gttctccaca gccaaagaag 960
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191 ttccgagagc tgaatgaggc cttagaactt aaggatgccc aggctggtaa ggagccagga 1080
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198 <213> ORGANISM: Artificial Sequence
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206 gatgatttga tgctgtcccc agacgatatt gaacaatggt tcactgaaga tccaggccca 180
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211 tgccccagtcc aactgtgggt cgactccacc cctccacctg gtacacgtgt ccgccgcaatg 480
212 gccatctaca agcagagcca gcacatgacg gaggtcgtac gacgctgtcc acaccatgag 540
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215 gagccaccag aagttggctc tgactgcacc accatccact acaactatat gtgtaacagt 720
216 tcatgcatgg gcggcatgaa ctggccgccg atcctgacca tcatcactct cgaggattcc 780
217 tcaggtaatc tcctaggacg gaattccttt gaggtgcgtg tttgtgcatg cccgggccgc 840

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221 aaacctttgg acggagaata tttcaccctt cagatccgtg gccgtgagcg gttcgagatg 1080
222 ttccgagagc tgaatgaggc cttagaactt aaggatgccc aggctggtaa ggagccagga 1140
223 aaaaaactga tgttcaagac cgaaggtcct gactcagact ga 1182
225 <210> SEQ ID NO: 8
226 <211> LENGTH: 1182
227 <212> TYPE: DNA
228 <213> ORGANISM: Artificial Sequence
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236 gatgatttga tgctgtcccc agacgatatt gaacaatggt tcactgaaga tccaggccca 180
237 gatgtaagct cacgaatgcc agaggccgct ccaccggttg cccagcacc agcagctcct 240
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239 aaaacctacc agggcagcta cggtttccgt ctgggcttct tgcattctgg aactgccaag 360
240 tctgttactt gtacgtactc tccagccctt aacaagatgt tttgccaact cgcgaagacc 420
241 tacccagtcc aactgtgggt cgactccacc cctccacctg gtacacgtgt ccgcgcaatg 480
242 gccatctaca agcagagcca gcacatgacg gaggtcgtac gacgctgtcc acaccatgag 540
243 cgctgctcaq attctgatgg tctgacgcca ccacaacatc ttatccgagt ggaaggtaac 600
244 ctacgcgtgg aqtatctaga tgaccgcaac actttcgac acagtatggt ggtgccatat 660
245 gaacgacgag aagttggctc tgactgcacc accatccact acaactatat gtgtaacagt 720
246 tctgcatgg acggcatgaa ccggcgccg atcctgacca tcatcactct cgaaggattcc 780
247 tcagtaaatc tcctaggacg gaattcctit gaagtgtgcg tttgtacatg ccccggccgc 840
248 gatcgccgga ccgaagagga gaatctccgg aagaaaggtg agcctcacca cgagctgcca 900
249 ccaagaagca ctaagcgagc actgccaaac aacaccagca gttctccaca gccaaagaag 960
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266 gatgatttga tgctgtcccc agacgatatt gaacaatggt tcactgaaga tccaggccca 180
267 gatgtaagct cacgaatgcc agaggccgct ccaccggttg cccagcacc agcagctcct 240
268 acaccggcgg cccagctcc ggccccatcc tggctctgt catcttctgt ccctttccag 300
269 aaaacctacc agggcagcta cggtttccgt ctgggcttct tgcattctgg aactgccaag 360
270 tctgttactt gtacgtactc tccagccctt aacaagatgt tttgccaact cgcgaagacc 420
271 tacccagtcc aactgtgggt cgactccacc cctccacctg gtacacgtgt ccgcgcaatg 480
272 gccatctaca agcagagcca gcacatgacg gaggtcgtac gacgctgtcc acaccatgag 540

Use of n or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using n or Xaa

3 4 02

VERIFICATION SUMMARY
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Input Set : A:\433480_1.txt
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L:11 M:270 C: Current Application Number differs, Replaced Current Application N
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:2328 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2332 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2336 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2340 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2344 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2348 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2352 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2356 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2360 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2364 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2368 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2372 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2376 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2380 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
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L:2388 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2392 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2396 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2400 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2404 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2408 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2412 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2416 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2420 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2424 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71